GOVERNMENT OF INDIA
CHEMICALS AND FERTILIZERS
LOK SABHA

UNSTARRED QUESTION NO:2376
ANSWERED ON:30.07.2002
UREA MAKING UNITS
BASUDEB ACHARIA

Will the Minister of CHEMICALS AND FERTILIZERS be pleased to state:

(a) the number of urea making units operating in the country with break-up based on feed stock, gas, naptha, fuel, oil and coal as on date;

(b) production, productivity and financial results of each of them during the last three years;

(c) whether the units with different feed stocks can be compared with each other;

(d) if so, the details thereof; and

(e) the manner in which such units in the country campare with similar units in other countries like USA, UK, Germany, China and Japan?

Answer

MINISTER OF STATE IN THE MINISTRY OF CHEMICALS & FERTILIZERS (SHRI TAPAN SIKDAR)

(a)&(b) Details of urea manufacturing functional units based on different feed stocks, their annual installed capacity and production during the last three years are given in the Annexure. Financial performance of the PSUs/cooperatives in the fertilizer sector for the last three years is given below:

Company Name Profit/Loss(-) (Rs. In crore)

	1999-2000	2000-2001	2001-2002 (prov)
PSUs			
NFL	34.89	27.31	40.91
FACT	-39.80	-151.95	0.57
RCF	35.08	64.97	43.86
MFL	24.98	-29.76	-143.75
FCI	-856.68	-951.36	-1068.35
HFC	-564.23	-767.72	-803.28
Cooperatives			
IFFCO	312.80	231.00	308.38
KRIBHCO	55.85	138.10	187.33

(c) No sir. They have different energy consumption and overall cost of production.

(d) Does not arise.

(e) India is one of the largest manufacturer of urea in the world. Ammonia is the basic building block for urea and production of ammonia is highly energy intensive. About 80% of the total energy required for manufacture of urea is consumed in making ammonia. Hence energy efficiency of ammonia is monitored throughout the world. However, the data available from other countries for

comparison on like to like basis is very limited. Availability of authentic data to effectively compare the production, productivity and financial results of urea units within the country with similar units in other countries is very limited. However, available figures of energy consumption based on a paper published in 1998 indicate that while the world average specific energy per metric tonne of nitrogen for urea manufacture is 12.91 G Cal, the corresponding figure for production in India is 13.24 G Cal. There is some data reported in a conference of International Fertilizer Industry Association(IFA) in the year 2000. According to this report the average energy consumption of 8 gas based Chinese plants was 8.72 mkCal/tonne of ammonia. This compares with the average energy consumption of Indian gas based plants of 8.72mkCal/tonne of ammonia as reported above. Similarly, the average energy consumption of 5 naphtha based Chinese plants was 9.25 mkCal/tonne ammonia compared to average energy consumption of Indian naphtha based plants as 9.52 mkCal/tonne of ammonia.

Annexure

STATEMENT REFERRED TO IN PART (a) OF THE LOK SABHA UNSTARRED QUESTION NO. 2376 TO BE ANSWERED (07-2002

STATEMENT SHOWING FEEDSTOCK-WISE, PLANT-WISE INSTALLED CAPACITY AND PRODUCTION OF UREA FC LAST THREE YEARS:

(`000` MT)

Sl. No.	Name of Feedstock /plants	Installed capacity as on 31-03-2002	Production		
		1999-2000	2000-2001	2001-02	
	FEEDSTOCK:GAS				
1	GSFC:Vadodara	370.6	365.4	302.8	321.8
	HFC:Namrup-II	-	0.0	0.0	0.0
2.	HFC:Namrup-III	330.0	122.3	167.1	64.3
3.	IFFCO:Aonla-I	864.6	734.5	814.1	706.1
4.	IFFCO:Aonla-II	864.6	844.1	858.0	864.4
5.	IFFCO:Kalol	544.5	445.0	487.8	550.3
6.	IGCL:Jagdishpur	864.6	1042.0	859.6	850.2
7	KRIBHCO:Hazira	1729.2	1557.4	1630.6	1694.1
8.	NFL:Vijaipur-I	864.6	813.2	810.8	853.4
9.	NFL:Vijaipur-II	864.6	903.1	853.3	853.4
10.	NFCL:Kakinada-I	597.3	641.4	578.1	611.4
11.	RCF:Thal	1485.0	1456.6	1329.5	1451.1
	RCF:Trombay	-	0.0	0.0	0.0
12.	RCF:Trombay-V	330.0	302.4	288.3	39.3
13.	CFCL:Gadepan-I	864.6	946.2	853.7	857.7
14.	TCL:Babrala	864.6	982.3	853.4	853.5
15.	OCF:Shahjahanpur	864.6	871.7	837.0	840.6
	T O T A L :	12303.4	12027.6	11524.1	11411.6
	FEEDSTOCK:NAPHTHA				
16.	FACT:Cochin-I	330.0	265.3	275.2	22.2
	HFC:Durgapur	-	0.0	0.0	0.0
	HFC:Barauni	-	0.0	0.0	0.0
	FCI:Gorakhpur	-	0.0	0.0	0.0
17.	DIL:Kanpur	722.0	694.9	673.4	658.7
18.	IFFCO:Phulpur	551.5	507.9	519.9	512.0
19.	IFFCO:Phulpur Expn.	864.6	804.7	853.6	857.7
20.	MCF:Mangalore	339.9	288.1	340.1	340.0
21.	MFL:Chennai	486.8	382.1	401.8	286.9
22.	SFC:Kota	379.0	404.5	324.7	330.1
23.	SPIC:Tuticorin	620.0	681.8	627.8	600.1
24.	ZIL:Goa	399.3	403.2	394.2	419.5
25.	NFCL:Kakinada-II	597.3	656.1	616.5	610.5
26.	CFCL:Gadepan-II	864.6	354.4	854.1	857.0

T O T A L : 6154.6 5443.0 5881.3 5494.7

FEEDSTOCK:FO/LSHS

27. FCI:Sindri Modn. 330.0 305.8 237.3 76.3
28. GNFC:Bharuch 636.0 615.8 639.4 644.1
29. NLC:Neyveli 153.5 17.2 97.2 62.0
30. NFL:Nangal-II 478.5 344.3 300.2 458.2
31. NFL:Bhatinda 511.5 543.3 478.6 514.1
32. NFL:Panipat 511.5 532.8 492.8 511.6

T O T A L : 2621.0 2359.2 2245.5 2266.3

FEEDSTOCK:COAL
FCI:Ramagundam - 0.0 0.0 0.0
FCI:Talcher - 0.0 0.0 0.0

T O T A L : 0.0 0.0 0.0 0.0

GRAND TOTAL : 21079.0 19829.8 19650.9 19172.6